



# CALICO | PRO

VIDEO PROCESSORS

THE POWER  
BEHIND **FLAWLESS**  
**VISUALS** FOR LED

TECHNOLOGY & PRODUCT BROCHURE





## FOUR DECADES OF ENGINEERING CONFIDENCE

Here at tvONE, we are proud of our strong legacy of technical innovation, and we look ahead to even more significant contributions to the professional AV industry. We remain committed to developing state-of-the-art technology, which continues to move the industry forward and instills confidence in its users.

Our in-house research & development team is dedicated to developing and deploying reliable, top performance technology. Our fifth-generation, proprietary, processing engine, CALICO, transcends other solutions, providing visibly enhanced image fidelity and even more video processing flexibility for all your needs today and in future.

# CALICO

VIDEO PROCESSING

## A REVOLUTION, NOT AN EVOLUTION

CALICO takes its name from a neutral, woven textile that provides a versatile base fabric for dyeing and printing with high-quality colors. The process reflects the CALICO mission to provide a family of trusted solutions that enable users to display and manipulate video in equally creative ways.

This fifth-generation, proprietary, processing engine is developed solely by tvONE and leads the way for innovation in video processing delivering visibly enhanced image fidelity, improved color rendition and even more video processing flexibility.

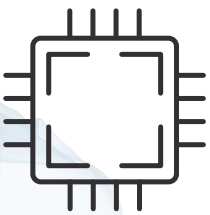


# DEMAND VISUAL PERFECTION

## THE CALICO DIFFERENCE

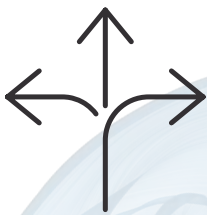
CALICO is a revolutionary video processor with access to hundreds of video windows and industry leading, ultra-low latency, 4K60, 10-bit image processing and HDR support, creating a new standard in video processing technology.

CALICO PRO enables the most complex, multi-window workflows in the market.



### IMMENSE PROCESSING POWER

CALICO provides unrivaled processing power, with huge creative design canvasses delivering high resolution, high quality video. Hundreds of video layers can be added to deliver “big data” and “big video” across a wide range of markets and industries.



### FLEXIBLE FEATURE SETS

Off-the-shelf video scalars cannot adapt to new markets or standards. With CALICO technology, it’s easy to add or change features providing total flexibility to give the customer exactly what they want.



### BUILT TO LAST

Built for demanding, professional applications, CALICO is built to last and grow with the customers’ needs to provide guaranteed “obsolescence insurance.” We stand behind our superior quality by offering an industry leading 5 year parts and labor warranty.

# UNDER THE HOOD

CALICO technology delivers innovative features, seamlessly integrating cutting-edge advancements such as seamless source management, color depth, and robust content management to deliver an enhanced user experience.



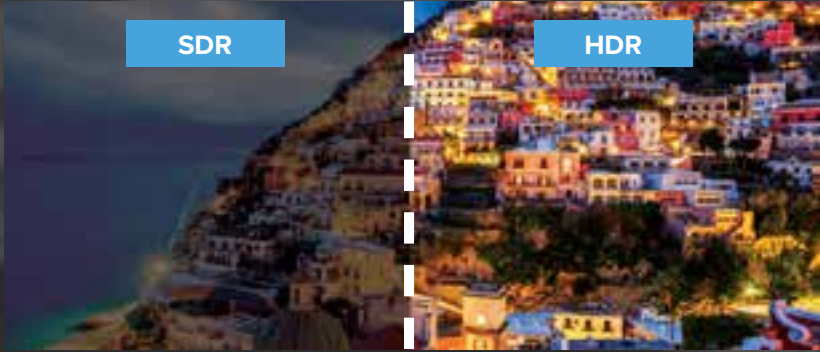
### UNRIVALED BANDWIDTH

CALICO is optimized for unrestricted, uncompressed, end-to-end performance even when working with 4K60 video. Using patented tvONE technology, CALICO delivers high data rate video processing levels combined with both physical and IP friendly workflows.



### SUPERIOR COLOR DEPTH

CALICO offers class-leading 10-bit processing for accurate reproduction of even the finest image details. Enjoy accurate color reproduction for correct branding and to enable HDR workflows.



### SEAMLESS HDR MANAGEMENT

CALICO supports multiple HDR standards and can seamlessly convert from one to another. It is simple to re-format SDR into HDR video, or vice-versa, removing many technological barriers to superior color.



### IMPERCEPTIBLE LATENCY

However complex your setup, CALICO delivers content from source to display with virtually no delay. Engineered for high performance, it ensures real-time responsiveness and seamless, frame-accurate video processing.



# CALICO | PRO

## CREATIVITY WITHOUT LIMITATIONS

Building upon our strong heritage of delivering the highest image fidelity, we have taken this philosophy a step further with exquisite up/down/cross conversion and video standards conversion for the ultimate management of various resolution sources and displays.

Capable of end-to-end 4:4:4 processing, combined with the highest quality conversions between 4:2:0, 4:2:2 and 4:4:4 color spaces, makes CALICO PRO the most innovative and flexible technology on the market.

The first product family using this award-winning processing engine is CALICO PRO which can support up to 66 million pixels with innovative Output Mapping to implement LED with total precision including 30bit True Color.

The CALICO PRO Video Processors have been designed from the ground up to achieve superior results for computer graphics, broadcast sources, IP Streams, still images and multimedia clips at their native resolution, supporting up to 4K now and 8K in the future.

Our mission is to deliver the highest quality, accurate and visually realistic processing of any video irrespective of aspect ratio or resolution, utilizing our propriety 10-bit video processing. We aim to ensure that no detail is lost in preserving full motion video and image stills from source to display with guaranteed visual perfection right down to pixel level.

### CALICO 1RU (C7-PRO-1200)

The latest addition to the CALICO PRO family, the C7-PRO-1200. This compact 1RU 10-bit video processor is designed for both rack and desktop mounting, featuring a fixed I/O configuration with six 4K60 HDMI 2.0 inputs and two 4K60 HDMI 2.0 outputs. Capable of driving up to 16.5 million pixels, it will begin shipping in Q2/2025.



### CALICO 2RU (C7-PRO-2200)

The 2RU CALICO PRO (C7-PRO-2200) is a versatile 10-bit video processor designed for desktop or rack mounting. It comes as standard with eight 4K60 inputs and four 4K60 outputs, supporting up to 33 million pixels—or up to 66 million pixels with additional modules. Now shipping with short lead times.



### ADDITIONAL 2RU MODULES

Additional input and output modules can be added to provide additional connectivity to the 2RU CALICO PRO using three optional module slots.

#### Optional High Bandwidth Output Modules

- 4 x 4K60/1080p120 HDMI
- 8 x 1080p60 HDMI
- 4 x 12G-SDI

#### Optional Input Modules

- 2 x 4K HDMI input
- 2 x 4K/1080p HDMI Media & Streaming
- 2 x 4K HDBaseT
- 4 x 1080p60 HDMI
- 4 x 3G-SDI
- S/PDIF & Analog Audio

#### Optional High Bandwidth Input Modules

- 4 x 4K60/1080p 120 HDMI
- 4 x 12G-SDI



VIEW THE 1RU  
TWO-SHEET HERE



VIEW THE 2RU  
TWO-SHEET HERE



# CALICO | STUDIO



## FREE DOWNLOAD

Try CALICO Studio for yourself, set up walls and preview using the provided sample media for later upload to a live CALICO PRO unit. CALICO Studio is intuitive and easy to use, but you can also reach out to the tvONE team for a short training session.

## CALICO STUDIO APP

Effortless control to switch sources and trigger presets.

## POWERFUL AND EASY TO USE SETUP AND CONTROL SOFTWARE

CALICO Studio is the highly intuitive, powerful design software for CALICO PRO. It is easy to configure single or multiple outputs for Direct View LED or create extensive projector edge blends and display walls – you choose! Position and rotate sources and displays with complete freedom and 360° rotation, including borders, dissolves, fades, and animations. Optimized for complex LED set ups, CALICO Studio offers customizable grid lines and snapping tools together with markers and labels for easy asset identification.



### KEYING

Enhance the viewer experience with real-time keying to add logos and build your brand.



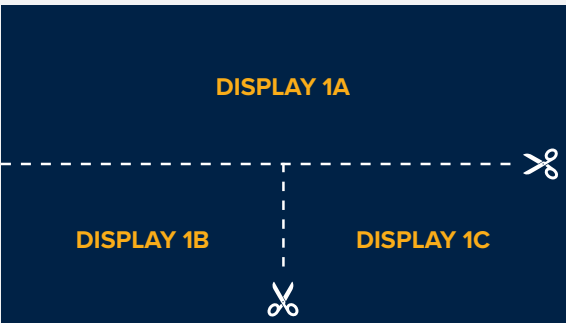
### SOURCE & OUTPUT ROTATION

Both source windows and outputs can be freely rotated from 0° through to 360° allowing ultra creative display set ups.



### HUNDREDS OF LAYERS

CALICO PRO offers more layers than you will ever need within an extremely flexible, and easy to set up, stack-based management system allowing for interchangeable 4K and HD resolution layers.



### INPUT AND OUTPUT MAPPING

Take control of every pixel with our powerful mapping tools. Make the most of every input asset and maximizes the use of every output pixel across single or multiple walls.



### SIMPLIFIED OPERATION

CALICO PRO guarantees pixel perfect and visually stunning content every time with fully customizable selection of the highest quality video.



### EDID MANAGER

Poor EDID implementation can lead to frustrations with device synchronization. CALICO PRO automatically manages EDID communications with additional support for non-standard or unique EDIDs with the integrated EDID manager.



### CALICO STUDIO DASHBOARD

Control your entire visual experience using our dashboard interface to fire presets, switch sources, make audio changes, cut to black and more.



### OTHER CONTROL OPTIONS

Choose from Apps, Control Panels or thirdparty control, linking to our open source, real-time API. Also use our plug-ins for QSYS and Crestron automation protocols.





VIEW THE APPLICATION  
BROCHURE HERE

# FOUR DECADES OF ENGINEERING CONFIDENCE



## INPUT MAPPING

Effortlessly cut multiple sections from any source using our Input Mapper, which generates up to 32 virtual sources. These can be switched, scaled, rotated, or keyed, making it ideal for control rooms handling multi-camera feeds or creative signage applications requiring complex layouts.



Derrick Rubin

## POWERFUL LABELLING ENGINE

Captivate your audience with customizable labels. Create static text, live source, and 4K image labels. Elevate branding with tickers, backgrounds, and logos. Seamlessly link labels to visual assets for effortless source switching and transitions.



## OUTPUT MAPPING


Simplify complex LED wall designs with CALICO PRO, enhancing creativity while saving time and reducing complexity. Map any output up to 32 times on a real-world canvas view for precise placement. CALICO PRO then consolidates these virtual outputs into a single output for your LED controller.



## CANVAS WATCH

Easily monitor your expansive LED, edge-blended projection, or display set-ups with ease for complete peace of mind. Watch multiple layouts from any canvas using a single display or multiple displays. Combine with packaged outputs to deliver multiple watched areas to a single display.





**Patented** video processing  
**FPGA** based system  
**More** efficient, **more** flexible  
Expandable product architecture

**CALICO**

#### **CUSTOM AND OEM PRODUCTS**

If your company has a unique application that could benefit from CALICO technology, we are experienced in providing custom products. Please contact us for more information and to discuss your requirements.

#### **WANT TO KNOW MORE?**

To discuss CALICO for any of your future installations, please contact your regional sales manager.  
Get in touch today!